

Mouse Mitochondrial uncoupling protein 3 (UCP3) ELISA Kit | UCP3 elisa kit

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CATALOG #
AAA27186

REACTIVITY
Mouse

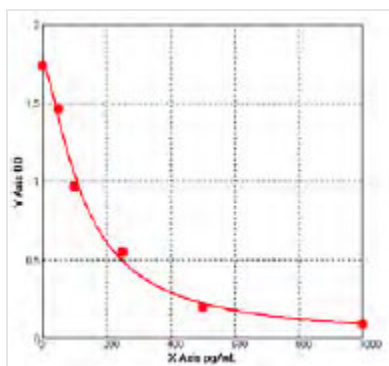
PRODUCT SYNONYMS

Mitochondrial uncoupling protein 3 (UCP3); Mouse Mitochondrial uncoupling protein 3 (UCP3) ELISA Kit; UCP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of UCP3. No significant cross-reactivity or interference between UCP3 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between UCP3 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for UCP3 elisa kit	Intended Uses: This UCP3 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse UCP3. This ELISA kit for research use only! Principle of the Assay: UCP3 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-UCP3 antibody and an UCP3-HRP conjugate. The assay sample and buffer are incubated together with UCP3-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the UCP3 concentration since UCP3 from samples and UCP3-HRP conjugate compete for the anti-UCP3 antibody binding site. Since the number of sites is limited, as more sites are occupied by UCP3 from the sample, fewer sites are left to bind UCP3-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The UCP3 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13259546
NCBI GeneID	7352
NCBI Accession #	NP_073714.1
NCBI GenBank Nucleotide #	NM_022803.2
Molecular Weight	22,874 Da
NCBI Official Full Name	mitochondrial uncoupling protein 3 isoform UCP3S
NCBI Official Synonym Full Names	uncoupling protein 3 (mitochondrial, proton carrier)
NCBI Official Symbol	UCP3
NCBI Official Synonym Symbols	SLC25A9
NCBI Protein Information	mitochondrial uncoupling protein 3; solute carrier family 25 member 9
UniProt Protein Name	Mitochondrial uncoupling protein 3
UniProt Gene Name	UCP3
UniProt Synonym Gene Names	SLC25A9; UCP 3
UniProt Entry Name	UCP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/mitochondrial-uncoupling-protein-3-ucp3/27186>